10-3900-203-ESC

EQUIPMENT SERVICEABILITY CRITERIA FOR TRUCK, LIFT, FORK, GASOLINE AND DIESEL, PNEUMATIC-TIRED, ROUGH TERRAIN, GED MDLS BAKER REJ-060-M02, CLARK OR 40B, ART30, MR-100 DED MDLS PETTIBONE MULLIKEN RTL-10, RTL10-1, CHRYSLER MLT-6CH ANTHONY MODELS MLT-6, MLT-6-2, ATHEY ART FT 6

Headquarters, Department of the Army, Washington, D.C., 26 May 1975

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		Paragraph
Section I.	INSTRUCTIONS	1-4
II	EQUIPMENT EVALUATION PROCEDURE	5-6

Section I. INSTRUCTIONS

1. Purpose. This manual furnishes the user a procedure for evaluating the readiness condition of the equipment to perform its primary mission for 90 days with normal maintenance support. Application of this procedure does not eliminate or reduce the requirement for prescribed maintenance service on the equipment and does not authorize replacement of components.

*This manual supersedes TM 10-3900-203-ESC, 23 April 1974

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2.

2. **Definitions.** *a. Equipment Category* **GREEN.** Equipment free of conditions that would reduce its capability for reliable performance of its primary mission for a period of 90 days.

b. Equipment Category **AMBER.** Operationally ready equipment that possesses a limiting factor(s) which may curtail a reliable performance of its primary mission for a period of 90 days of operation.

c. Equipment Category **RED.** Equipment unable to perform its primary mission immediately or possessing an unacceptable reliability for sustained performance (90 days) of its primary mission.

3. **General Instructions.** *a.* This technical manual will be filed in the equipment log binder. If classified, this technical manual will be filed in accordance with the provisions of AR 380-5.

b. This evaluation will be actually performed on the item rated by the operator/crew.

c. Authorized subsystems and components of multiple-aspect equipment requiring evaluation but which are not available at the organization shall be given the lowest color rating authorized for that item.

d. Equipment covered in this manual which requires serviceability checks but which is not authorized to the evaluating organization shall not be rated.

e. This equipment is rated on the basis of capability for immediate operation and amount of wear life remaining on limited life components. The rating is not meaningful unless each check is made with the utmost care and accuracy.

f. Record the evaluation results on DA Form 2404 (Equipment Inspection and Maintenance Worksheet) using a separate sheet for each multiple-aspect equipment, subsystem, and/or component, including those evaluated by separately published equipment serviceability criteria technical manuals. The blocks will be completed in accordance with TM 38-750.

(1) *Block* 1. Insert the organizational designation of the unit performing the evaluation.

(2) *Block* 2. Insert the item name and model.

(3) *Block* 3. Insert the serial number.

(4) *Block* 4. Insert the hours that the equipment has been operated as of the date of the evaluation.

(5) *Block* 5. Insert the standard six-digit calendar date that the equipment serviceability criteria evaluation is performed. *Example:* 3 January 1969 would be 690103.

(6) *Block* 6. Insert the letters ESC.

(7) *Block* 7. Insert the equipment serviceability criteria technical manual number and its date of issue.

(8) *Column a.* Insert the checkpoint item number.

(9) *Column b.* Place each obtained color rating opposite the item to which it applies. (Insert **GREEN, AMBER,** or **RED** as applicable).

(10) *Column c.* Briefly describe each test item.

(11) Obtain the color rating for each subsystem by taking the lowest color rating given.

(12) *Blocks* 8 *and* 9. Self-explanatory.

(13) *Block* 10. Insert the overall equipment color categorization.

(14) The color category for the overall equipment will not be rated any higher than the lowest rated item. The color rating will be kept current by recording changes as they occur on DA Form 2404.

(15) Staple all forms applying to the same system together, with those which apply to the basic system on top.

g. Determine and record the appropriate rating for each checkpoint, each subsystem component, and the system. The color rating for multiple-aspect equipment will be the lowest rating recorded for a subsystem component.

NOTE

If an URGENT modification work order has not been applied to any authorized equipment, the equipment and the system will be rated **RED.**

h. Subsystems and components will be separately color rated.

i. A color rating will be assigned for the overall system.

1. Reporting of Errors. You can help to improve this manual by calling attention to errors and by recommending improvements. Your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms) may be used. Please mail your recommended changes direct to Commander, US Army Troop Support Command, ATTN: AMSTS-MPP, 4300 Goodfellow Boulevard, St. Louis, MO 63120. A reply will be furnished direct to you.

READEX FICHE

Section II. EQUIPMENT EVALUATON PROCEDURE

5. Evaluation Requirements. *a* Before inspecting the vehicle, insure that the coolant, fuel, lubricating and hydraulic oils, and battery levels are adequate and that the vehicle will, without damage, operate satisfactorily to perform the requirements of this evaluation.

b The information for items 1 through 13 is obtained by physical inspection and road testing the vehicle.

6. Procedures. Information is to be determined from the equipment log, visual, and operational inspection. Evaluate each item listed and record the proper values on DA Form 2404 as described in Section I.

PROCEDURE	RATINGS		
	GREEN	AMBER	RED
Item 1. MODIFICATION WORK ORDERS (MWO's)			
Determine if all URGENT MWO's have been applied. Refer to DA Form 2408-5 in the log book.	URGENT MWO's have been applied.		One or more URGENT MWO's have not been applied.
Item 2. TIRES — INSPECTION			
Visually inspect the tires for cuts, tears, and breaks to determine serviceability. If the tires appear to be in good condition, determine the tire tread depth remaining by gaging or measuring three equally spaced points around the tire circumference near the center of the tire.	Each tire tread measures more than 1/4 inch.	One or more tire tread measures less than 1/4 inch.	Cuts, tears, or breaks exposing cord require a **RED** rating. Each tire tread measures less than 1/4 inch.
Item 3. BATTERIES — INSPECTION			
Inspect for obvious defects that make the	Batteries crank engine		One or more batteries

PROCEDURE	RATINGS		
	GREEN	AMBER	RED
batteries unserviceable.	at normal cranking speed. All batteries present.		missing or will not crank engine.
Item 4. FRAME, BOOM, AND FORK CARRIAGE — INSPECTION			
Inspect frame, and fork carriage, axle mountings, crossmembers, and frame supports for cracks, breaks, or misalinement. Inspect sideshift chain for wear or breaks.	No obvious cracks, broken welds, or misalinement in frame, boom, or fork carriage. No noticeable wear or broken sideshift chain.	Noticeable wear of, or broken, sideshift chain.	One or more cracked/broken crossmembers, frame supports, axle mountings, boom, fork carriage; or broken welds.
Item 5. INSTRUMENTS — INSPECTION AND OPERATION			
These items are of a random failure type and require only a check to determine whether they are functioning properly. The following items are checked: Hour meter, fuel, temperature, and oil pressure gages, ammeter, and warning lights if incorporated in the system.	All items function properly.	Hourmeter or ammeter missing or does not function properly. Temperature or oil pressure gage inoperative but warning lights functions, or gages operate but warning light inoperative.	When both warning lights and gages are inoperative for either oil pressure or coolant temperature.
Item 6. ENGINE OPERATION — INSPECTION AND OPERATION			
Start engine. During idling period, check	Operates properly.	Detectable noise or	Excessive noise or

PROCEDURE	RATINGS		
	GREEN	AMBER	RED
for smooth operation. After preliminary warm up period, accelerate to maximum governed speed and check engine response to acceleration. Detect any erratic operation. Slow engine down and listen for any unusual noise or vibration that might indicate damaged or worn parts.		vibration. Operates properly.	vibration. Not operating properly or inoperative.
Item 7. TRANSMISSION — INSPECTION AND OPERATION			
Operate vehicle in each gear range. During operation, checks for unusual noise and clutch slippage in each gear range. Observe converter temperature for normal operating range.	Operates properly. Temperature normal.		Unusual noise. Converter temperature high. Engine performs but vehicle not moving properly in one or more gear ranges or is inoperative.
Item 8. HYDRAULIC AND STEERING SYSTEMS — INSPECTION AND OPERATION			
Operate to determine that all systems function properly. Check tank, pumps, lines, control valves, fittings and cylinders for leakage.	Operates properly.	All systems respond and operate properly. Detectable leaks.	Dripping hydraulic leaks, cracked or pinched hoses or lines. Hydraulic pumps not operating properly.
Item 9. FRONT AND REAR DRIVE AXLES AND PROPELLER SHAFTS — INSPECTION AND OPERATION			
During road testing, check drive axles	Operates properly.	Operates but has un-	Differential(s) inopera-

PROCEDURE	RATINGS		
	GREEN	AMBER	RED
for unusual noise.		usual noise, backlash or detectable U-joint wear.	tive or propeller shaft(s) unserviceable.
Item 10. BRAKES — INSPECTION AND OPERATION			
Operate brake system (including hand brake) to determine performance. Inspect for leaks.	Service and hand brakes operate properly.	Hand brake inoperative. Service brakes operate, however, detectable hydraulic leaks.	Service brakes do not hold. Accumulator (if so equipped) does not retain pressure.
Item 11. LEAKAGE — INSPECTION			
With engine running, inspect fuel lines, lubricating oil lines, coolant lines, fuel tank filters, radiator, and engine crankcase area.	No visible leakage.	Moist condition or occasional drop formation.	Continued flow or visible cracks.
Item 12. ENGINE OIL CONSUMPTION (DA FORM 2408-1)			
Determine how many quarts of oil were consumed during the last 100 hours of operation. If less than 100 hours have been accumulated since last oil change, use data between previous changes. Do not consider amount of oil used in making change.	Quarts/100 hours 0-6 gasoline engine. 0-9 diesel engine.	Quarts/100 hours 7 or over, gasoline engine. 10 or over, diesel engine.	

PROCEDURE	RATINGS		
	GREEN	AMBER	RED
Item 13. ENGINE HOURS OF OPERATION (DA FORM 2408-1 OR 2408-10)			
Determine the nours engine has been in operation since new or overhaul. If hourmeter has been replaced, add hours at time of replacement(s) to present hourmeter reading for total hours of engine operation since new or overhaul.	.0-3000 hours operated.	.3001 or over hours operated.	

a. Determine if any AMBER ratings were recorded.

b. Determine if any RED ratings were recorded.

c. The color rating will be the lowest rating recorded.

By Order of the Secretary of the Army:

Official:

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Major General, United States Army,
The Adjutant General

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